

I CLAIM

1. A mobile terminal including an operating system having a file system for detecting a filename with an illegal character, characterized in that

5 the file system comprises an encoder module for encoding the filename by replacing the illegal character with a specific code character.

2. A mobile terminal according to claim 1, wherein
10 the specific code character includes information about the position of the illegal character in the filename.

3. A mobile terminal according to claim 2, wherein
15 the position of the illegal character is represented with 8 bits of a Unicode character.

4. A mobile terminal according to claim 1, wherein
20 the specific code character includes information about the illegal character itself.

5. A mobile terminal according to claim 4, wherein
 the illegal character itself is mapped using 4 bits of a Unicode character.

25 6. A mobile terminal according to claim 1, wherein the specific code character includes information to identify the same from other characters.

7. A mobile terminal according to claim 6, wherein coded characters are identified by four most significant bits of the filename, including using code areas from E000 to F8FF in the Unicode character code standard.

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8. A mobile terminal according to claim 1, wherein the specific code character is placed in a predefined location in the filename.

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9. A mobile terminal according to claim 1, wherein the specific code character is placed at the end of a main portion of the filename before a commonly used extension.

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10. A mobile terminal according to claim 1, wherein the file system further comprises a decoder module for decoding an encoded filename by replacing the specific code character with the illegal character, whereby the filename is decoded back to the original format.

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11. A mobile terminal according to claim 1, wherein the file system receives filenames from an external source and stores the filenames without corrupting them.

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12. A mobile terminal according to claim 11, wherein the file system has a mass storage device for use as a storage device by the external source.

13. A mobile terminal according to claim 1, wherein the filename comprises 16-bit Unicode characters and each specific code character replaces a respective 16-bit Unicode character.

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14. A mobile terminal according to claim 13, wherein the specific code character is based on a symmetrical filename coding scheme using substantially all 16 bits of a Unicode character to encode one illegal character.

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15. An encoder for a file system of an operating system in a mobile terminal, the file system for detecting a filename with an illegal character, characterized in that

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the encoder module encodes the filename by replacing the illegal character with a specific code character.

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16. A decoder for a file system of an operating system in a mobile terminal, the file system for detecting a filename with an illegal character and having an encoder module for encoding the filename by replacing the illegal character with a specific code character, the decoder for decoding an encoded filename by replacing the specific code character with the illegal character, whereby the filename is decoded back to the original format.

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17. A method for encoding a filename having an
illegal character, characterized in that

the method comprises encoding the filename by
replacing the illegal character with a specific code
character.

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